

# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

## QC ABSTRACT

Name of Work: Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.

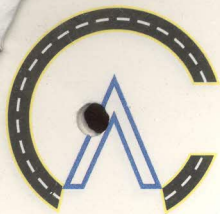
| SI. No. | Item         | Quantity As Per BOQ | Required No's of testes | Actual No's of testes | Testes                             | Frequency        |
|---------|--------------|---------------------|-------------------------|-----------------------|------------------------------------|------------------|
| 1       | 1:3:6        | 32.76 Cum           | 1                       | 1                     | Cement                             | One Test Per Lot |
|         |              |                     |                         |                       | Sand, Aggregates                   |                  |
| 2       | M15          | 28.08 Cum           | 3                       | 3                     | Concrete Cube Compressive Strength | -                |
| 3       | Slab (100mm) | 101.25 Sqm          | 1                       | 1                     | Concrete Core Compressive Strength | -                |
| 4       | Slab (200mm) | 117.00 Sqm          | 1                       | 1                     | Concrete Core Compressive Strength | -                |

Cubes  
0-5 Cum 1Set  
6-15 Cum 2Set  
16-30 Cum 3Set  
31-50 Cum 4Set  
Add 1set for extra 50Cum



M. P. N. D.

*C. P. S.*  
Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



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An ISO 9001-2015 Certified Company  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 29.04.2022

## TEST REPORT

|                     |   |                                                                                    |
|---------------------|---|------------------------------------------------------------------------------------|
| CLIENT              | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.           |
| AGENCY              | : | Sri. K Shankar Reddy, Contractor, Bangalore.                                       |
| NAME OF THE WORK    | : | Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore. |
| SAMPLE ID           | : | Cement (Zuari OPC 53 Grade)                                                        |
| DATE OF MANUFACTURE | : | March - 2022                                                                       |
| DATE OF TESTING     | : | 27.04.2022 to 29.04.2022                                                           |
| SAMPLES SUPPLIED BY | : | AGENCY                                                                             |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions            | Test Method as per IS                       | Test Result | Requirements as per IS: 269-2015 |
|-------|-------------------------|---------------------------------------------|-------------|----------------------------------|
| 1     | a) Initial Setting Time | IS-4031 (Part -5)                           | 130 Minutes | Not Less than 30 Minutes         |
|       | b) Final Setting Time   | IS-4031 (Part -5)                           | 340 Minutes | Not More than 600 Minutes        |
| 2     | Soundness               | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm        | Not more than 10 mm              |
| 3     | Standard Consistency    | IS-4031 (Part -4)                           | 29.00 %     | -                                |

Note:

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M. N. D.

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorized Signatory



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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date : 29.04.2022

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client** Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of Work** Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Date of Testing** : 29.04.2022  
**IS Code** : IS 383:2016  
: IS 2386 (Part 1):1963(RA 2011)  
**Material** : Sand **Total Wt. of Aggregates in gms** 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---------------------|----------------------|----------------------|---------------------------------|--------------------------------|-------------------------|
| 10                  | 0                    | 0                    | 0                               | 100                            | 100                     |
| 4.75                | 84                   | 8.40                 | 8.40                            | 91.6                           | 90-100                  |
| 2.36                | 135                  | 13.50                | 21.90                           | 78.1                           | 75-100                  |
| 1.18                | 189                  | 18.90                | 40.80                           | 59.2                           | 55-90                   |
| 600 Micron          | 115                  | 11.50                | 52.30                           | 47.7                           | 35-59                   |
| 300 Micron          | 252                  | 25.20                | 77.50                           | 22.5                           | 8-30                    |
| 150 Micron          | 172                  | 17.20                | 94.70                           | 5.3                            | 0-10                    |

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*Mhuf .ND*

*[Signature]*  
Assistant Executive Engineer  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date : 29.04.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of Work** Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Date of Testing** : 29.04.2022  
**IS Code** : IS 383:2016  
: IS 2386 (Part 1):1963(RA 2011)  
**Material** : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---------------------|----------------------|----------------------|---------------------------------|--------------------------------|-------------|
| 40                  | 0                    | 0                    | 0                               | 100                            | 100         |
| 20                  | 184                  | 3.7                  | 3.7                             | 96.3                           | 95-100      |
| 10                  | 2436                 | 48.7                 | 52.4                            | 47.6                           | 25-55       |
| 4.75                | 1965                 | 39.3                 | 91.7                            | 8.3                            | 0-10        |

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For CIVIL AIM CONSULTANTS & ENGINEERS

*M. N. D.*

*C. S. A.*  
Assistant Executive Engineer  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date : 29.04.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of Work** Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Date of Testing** : 29.04.2022  
**IS Code** : IS 383:2016  
: IS 2386 (Part 1):1963(RA 2011)  
**Material** : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---------------------|----------------------|----------------------|---------------------------------|--------------------------------|-------------|
| 80                  | 0                    | 0                    | 0                               | 100                            | 100         |
| 40                  | 189                  | 1.26                 | 1.26                            | 98.74                          | 95-100      |
| 20                  | 8236                 | 54.91                | 56.17                           | 43.83                          | 30-70       |
| 10                  | 3256                 | 21.71                | 77.87                           | 22.13                          | 10-35       |
| 4.75                | 2815                 | 18.77                | 96.64                           | 3.36                           | 0-5         |

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*Arthya .ND*

*CyS*  
Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

*prk*  
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Job No.:

CACE /BBMP/KSR/W No.07/2022-23

Date : 29.04.2022

## TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of Work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Date of Testing** : 29.04.2022  
**Material** : Sand - Masonry

Total wt. of aggregates in gms = 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---------------------|----------------------|----------------------|---------------------------------|--------------------------------|---------------------------------|
| 4.75                | 0                    | 0.00                 | 0.00                            | 100.0                          | 100                             |
| 2.36                | 13                   | 1.30                 | 1.30                            | 98.7                           | 90-100                          |
| 1.18                | 35                   | 3.50                 | 4.80                            | 95.2                           | 70-100                          |
| 600 Micron          | 84                   | 8.40                 | 13.20                           | 86.8                           | 40-100                          |
| 300 Micron          | 246                  | 24.60                | 37.80                           | 62.2                           | 5-70                            |
| 150 Micron          | 495                  | 49.50                | 87.30                           | 12.7                           | 0-15                            |

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For CIVIL AIM CONSULTANTS & ENGINEERS

*[Signature]*  
Authorised Signatory

*[Signature]*  
Assistant Executive Engineer  
Kodigehalli Sub Division  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 13.05.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Sample ID** : Cement Concrete for Vent  
**Size of cubes** : 150mmx150mmx150mm  
**Cross Sectional Area** : 22500 mm<sup>2</sup>  
**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)  
**Grade of Concrete** : M<sub>15</sub>  
**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 06.05.2022      | 13.05.2022      | 8.165               | 266.8             | 11.86                                     |
| 2      | 06.05.2022      | 13.05.2022      | 8.124               | 276.2             | 12.28                                     |
| 3      | 06.05.2022      | 13.05.2022      | 8.118               | 282.4             | 12.55                                     |

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*M. N. D.*

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Assistant Executive Engineer  
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*P. K. N. H.*  
Authorised Signatory



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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 03.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.

**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.

**Sample ID** : Cement Concrete for Vent

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 mm<sup>2</sup>

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : M<sub>15</sub>

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 06.05.2022      | 03.06.2022      | 8.179               | 389.6             | 17.32                                     |
| 2      | 06.05.2022      | 03.06.2022      | 8.165               | 365.3             | 16.24                                     |
| 3      | 06.05.2022      | 03.06.2022      | 8.146               | 376.8             | 16.75                                     |

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*M. N. D.*

*[Signature]*  
Assistant Executive Engineer  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 16.05.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**Sample ID** : Cement Concrete for Copping  
**Size of cubes** : 150mmx150mmx150mm  
**Cross Sectional Area** : 22500 mm<sup>2</sup>  
**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)  
**Grade of Concrete** : M<sub>15</sub>  
**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 09.05.2022      | 16.05.2022      | 8.184               | 268.2             | 11.92                                     |
| 2      | 09.05.2022      | 16.05.2022      | 8.165               | 276.5             | 12.29                                     |
| 3      | 09.05.2022      | 16.05.2022      | 8.146               | 258.2             | 11.48                                     |

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Assistant Executive Engineer  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 06.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.

**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.

**Sample ID** : Cement Concrete for Copping

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 mm<sup>2</sup>

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : M<sub>15</sub>

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 09.05.2022      | 06.06.2022      | 8.188               | 389.6             | 17.32                                     |
| 2      | 09.05.2022      | 06.06.2022      | 8.164               | 364.2             | 16.19                                     |
| 3      | 09.05.2022      | 06.06.2022      | 8.146               | 375.2             | 16.68                                     |

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*Ar. M. N. D.*

*CyA*

For CIVIL AIM CONSULTANTS & ENGINEERS

*Pr. Kanth*  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 27.05.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.

**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.

**Sample ID** : Cement Concrete for Ramp

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 mm<sup>2</sup>

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : M<sub>15</sub>

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 20.05.2022      | 27.05.2022      | 8.188               | 275.6             | 12.25                                     |
| 2      | 20.05.2022      | 27.05.2022      | 8.155               | 269.2             | 11.96                                     |
| 3      | 20.05.2022      | 27.05.2022      | 8.138               | 284.2             | 12.63                                     |

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 17.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Agency** : Sri. K Shankar Reddy, Contractor, Bangalore.

**Name of the work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.

**Sample ID** : Cement Concrete for Ramp

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 mm<sup>2</sup>

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : M<sub>15</sub>

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 20.05.2022      | 17.06.2022      | 8.140               | 389.6             | 17.32                                     |
| 2      | 20.05.2022      | 17.06.2022      | 8.156               | 365.2             | 16.23                                     |
| 3      | 20.05.2022      | 17.06.2022      | 8.140               | 376.2             | 16.72                                     |

Note:

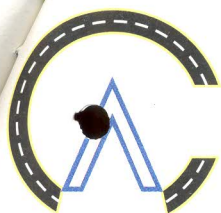
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*[Signature]*  
Assistant Executive Engineer  
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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 18.05.2022

## PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Contractor : Sri. K Shankar Reddy, Contractor, Bangalore.  
Name of Work : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
No. of Sample Tested : 03  
Date of Testing : 18.05.2022  
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.  
Grade of Concrete : M<sub>20</sub>

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / m <sup>3</sup> ) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength (N/mm <sup>2</sup> ) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength (N/mm <sup>2</sup> ) | Equivalent Cube Compressive Strength (N/mm <sup>2</sup> ) |
|---------|--------------------|-----------------------|--------------|----------------------------------------|-------|----------------------------------|-------------------|------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| 1       | 50.00              | 81.00                 | 0.372        | 2338.99                                | 1.62  | 0.959                            | 32.30             | 16.45                              | 17.77                                                        | 17.04                                                        | 21.30                                                     |
| 2       | 50.00              | 83.00                 | 0.387        | 2374.67                                | 1.66  | 0.963                            | 33.50             | 17.06                              | 18.43                                                        | 17.75                                                        | 22.19                                                     |
| 3       | 50.00              | 85.00                 | 0.399        | 2390.69                                | 1.70  | 0.968                            | 34.20             | 17.42                              | 18.81                                                        | 18.20                                                        | 22.75                                                     |

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Job No.: CACE /BBMP/KSR/W No.07/2022-23

Date: 18.05.2022

## PRECAST SLAB 200mm Thick(CORE) TEST REPORT

**Client** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
**Contractor** : Sri. K Shankar Reddy, Contractor, Bangalore.  
**Name of Work** : Improvements to footpath and drain in Ward No.07 Byatarayanapura, BBMP, Bangalore.  
**No. of Sample Tested** : 03  
**Date of Testing** : 18.05.2022  
**Technical Reference** : IS:516-1959 (Reaffirmed 1999), SP-24:1983.  
**Grade of Concrete** : M<sub>20</sub>

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / m <sup>3</sup> ) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength (N/mm <sup>2</sup> ) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength (N/mm <sup>2</sup> ) | Equivalent Cube Compressive Strength (N/mm <sup>2</sup> ) |
|---------|--------------------|-----------------------|--------------|----------------------------------------|-------|----------------------------------|-------------------|------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| 1       | 90.00              | 113.00                | 1.675        | 2330.03                                | 1.26  | 0.920                            | 112.30            | 17.65                              | 19.06                                                        | 17.53                                                        | 21.91                                                     |
| 2       | 90.00              | 115.00                | 1.725        | 2357.85                                | 1.28  | 0.922                            | 112.90            | 17.75                              | 19.17                                                        | 17.67                                                        | 22.09                                                     |
| 3       | 90.00              | 117.00                | 1.782        | 2394.13                                | 1.30  | 0.924                            | 113.50            | 17.84                              | 19.27                                                        | 17.81                                                        | 22.26                                                     |

### Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

*P. Shankar*  
Authorised Signatory

*C. S. Reddy*  
Assistant Executive Engineer  
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BBMP, Bangalore